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Attorney Docket No. 56162.000353  
Application No. 10/050,532

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of : )  
 )  
Michael J. GRAZIANO, et al. ) Group Art Unit: 2631  
 )  
 ) Examiner: *Unknown*  
Application No.: 10/050,532 )  
 )  
Filed: January 18, 2002 )  
 )  
For: METHOD AND SYSTEM FOR SHAPING TRANSMITTED  
POWER SPECIAL DENSITY ACCORDING TO LINE CONDITIONS

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**INFORMATION DISCLOSURE STATEMENT**

The Director of the United States Patents  
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Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully submit the following documents for the Examiner's consideration. A copy of Form PTO-1449 and copies of each of the listed documents are enclosed for the Examiner's convenience.

Applicants respectfully request that the Examiner considers the enclosed references and that the Examiner indicates that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per MPEP 609.

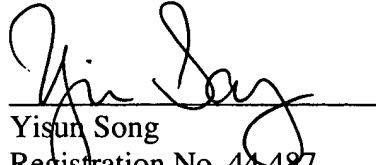
This Information Disclosure Statement is believed to be submitted before the mailing of a first Office Action. Accordingly, no fees are due. However, if any fees are

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Respectfully submitted,  
HUNTON & WILLIAMS

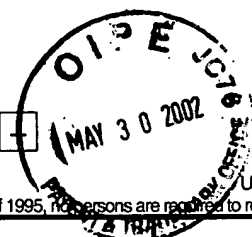
Date: May 30, 2002

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Approved for use through 10/31/2002. OMB 0651-0031

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**Complete if Known**

Application Number	10/050,532
Filing Date	January 18, 2002
First Named Inventor	Michael J. GRAZIANO et al.
Group Art Unit	2631
Examiner Name	Unassigned
Attorney Docket Number	56162.000353

Sheet 1 of 1

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## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	U1	5,363,321		Dao Trong et al.	11/08/94	
	U2	5,524,089		Takano	06/04/96	
	U3	5,570,310		Smith	10/29/96	
	U4	5,600,581		Dworkin et al.	02/04/97	
	U5	5,604,691		Dworkin et al.	02/18/97	
	U6	5,642,305		Pan et al.	06/24/97	
	U7	5,703,801		Pan et al.	12/30/97	
	U8	5,909,384		Tal et al.	06/01/99	
	U9	5,940,312		Hansen	08/17/99	
	U10	5,941,939		Pan et al.	08/24/99	
	U11					

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	P1	Haykin, Simon, <i>Communication Systems 4<sup>th</sup> Edition</i> , Wiley, 2001, page 436	
	P2	Brigham, E. Oran, <i>The Fast Fourier Transform and its Applications</i> , Prentice Hall, 1988, pgs 191-193	
	P3	Embree, Paul M. and Kimbel, Bruce, <i>C Language Algorithms for Digital Signal Processing</i> , Prentice Hall, 1991, pgs 255-256 and 266 and 267	
	P4	Haykin, Simon, <i>Adaptive Filter Theory 3<sup>rd</sup> Edition</i> , Prentice Hall, 1996, pgs 393-404	
	P5	Proakis, John G., Manolakis, Dimitris G., <i>"Digital Signal Processing: Principals, Algorithms and Applications 3<sup>rd</sup> Edition</i> , Prentice Hall, 1996, pgs 23-28	
	P6	ITU Standard G.991.2, "Single Pair High Speed Digital Subscriber Line (SHDSL) Transceivers", April 2001, pgs 1-191, Irvine, California	
	P7	ITU Standard G.994.1, "Handshake Procedures for Digital Subscriber Line (DSL) Transceivers", June 1999, pgs 1-46, Geneva	
	P8	ANSI Standard HDLSL2, "High Bit Rate Digital Subscriber Line--2 <sup>nd</sup> Generation (HDLSL2)", February 21-25, 2000, pgs 1-94, Maui, HI	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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